

# New York State Department of Transportation

## Yellow Flag NB2222W003

By: Sahadeo Bhagwandin  
Flag Date: March 25, 2022

Superseding Information:  
This flag supersedes: YF NB2197W027

### Structure Information

**BIN: 1065318**  
**Feature Carried:** 278I278IX2M23027  
**Feature Crossed:** 6TH AVENUE  
**Orientation:** 8 - NORTHWEST  
**Region:** 11 - NEW YORK CITY  
**County:** KINGS  
**Political Unit:** City of NEW YORK  
**Approximate Year Built:** 1962  
**Posted Load Matches Inventory :** Yes  
**Bridge Load Posting (Tons) :** Not Posted for Load  
**Primary Owner:** New York State Department of Transportation  
**Primary Maintenance Responsibility:** 12 - State - Subcontracted to another Party  
**Typical or Main Span Type:** 3 - Steel, 02 - Stringer/Multi-Beam or Girder  
This Bridge is not a Ramp  
**Number of Spans:** 322

### Verbal Notification Information

**Person Notified:** Heinz Joachim, P.E.  
**Date:** March 25, 2022 10:00:00 AM  
**Of:** NYSDOT Region 11

### Signature Information

**Signature:** Sahadeo Bhagwandin, P.E. 088239-1  
**Date:** April 07, 2022  
**Reviewed By:** Robert Kemp  
**Date:** April 07, 2022

**Attachments:** 6

**Flagged Elements**

Parent Element	Element	Total Quantity	Unit
<b>Span Number : 222</b>			
	107 - Steel Open Girder/Beam	989	ft
	PR831 - Steel Beam End	42	each

**Flagged Condition Description**

Yellow Flag No. NB2222W003 supersedes Yellow Flag No. NB2197W027

Location: Span 222 Girder G19 at Pier 221

Description: The right connection angle at Girder G19 to the pier cap at Pier 221 exhibits 100% section loss at the fillet for the full height of the connection angle (no change from the previous inspection).

The left connection angle exhibits a corrosion hole directly below the girder web measuring 4" L x 1.25" H (no change from the previous inspection). A corrosion hole located at the base of the angle measures 3.5" L x 2" H (no change from previous inspection) and another hole at the top of the angle measuring 1-1/4" L x 1/2" H (not previously noted).

Additionally, the web at Girder G19, along the connection angle, exhibits 50% overall section loss for the full height (no change from the previous inspection).

There are no significant changes since last inspection.

Notes:

1.The affected member, Girder G19 is a load path redundant steel girder consisting of a web depth of 19.5" inches and thickness of 0.606 inches and is located under the deck in the roadway, approximately 12" off the edge of curb line/safety walk. All dimensions were measured in the field.

2.The adjacent Girder G18, is 5'-5" on center, exhibits approximately 20% localized section loss to the lower web above bottom flange and along connection angle.

3.The adjacent Stringer S2, approximately 24" on center, acts as a support for the railing and curb area above and is in good condition.

4.A double lane left closure on 3rd Avenue Eastbound between 27th and 28th Streets with shadow vehicle and a 35' bucket truck is required to access the flagged location.

**Flag Photographs**

Photo Number: 1

Photo Filename: Photo1-4486 edited.jpg



**Attachment Description:** Span 222, Girder G19 at Pier 221 – General view of flagged location. Looking begin left.



Photo Number: 2

Photo Filename: Photo 2\_SB-4464\_Cracked connection angle - edit.



**Attachment Description:** Span 222 at Pier 221. Girder G19 right face. Full height crack in the right connection angle at the fillet and corrosion holes in the left connection angle. Looking left.



Photo Number: 3

Photo Filename: Photo 3\_SB\_4485\_50% section loss.JPG

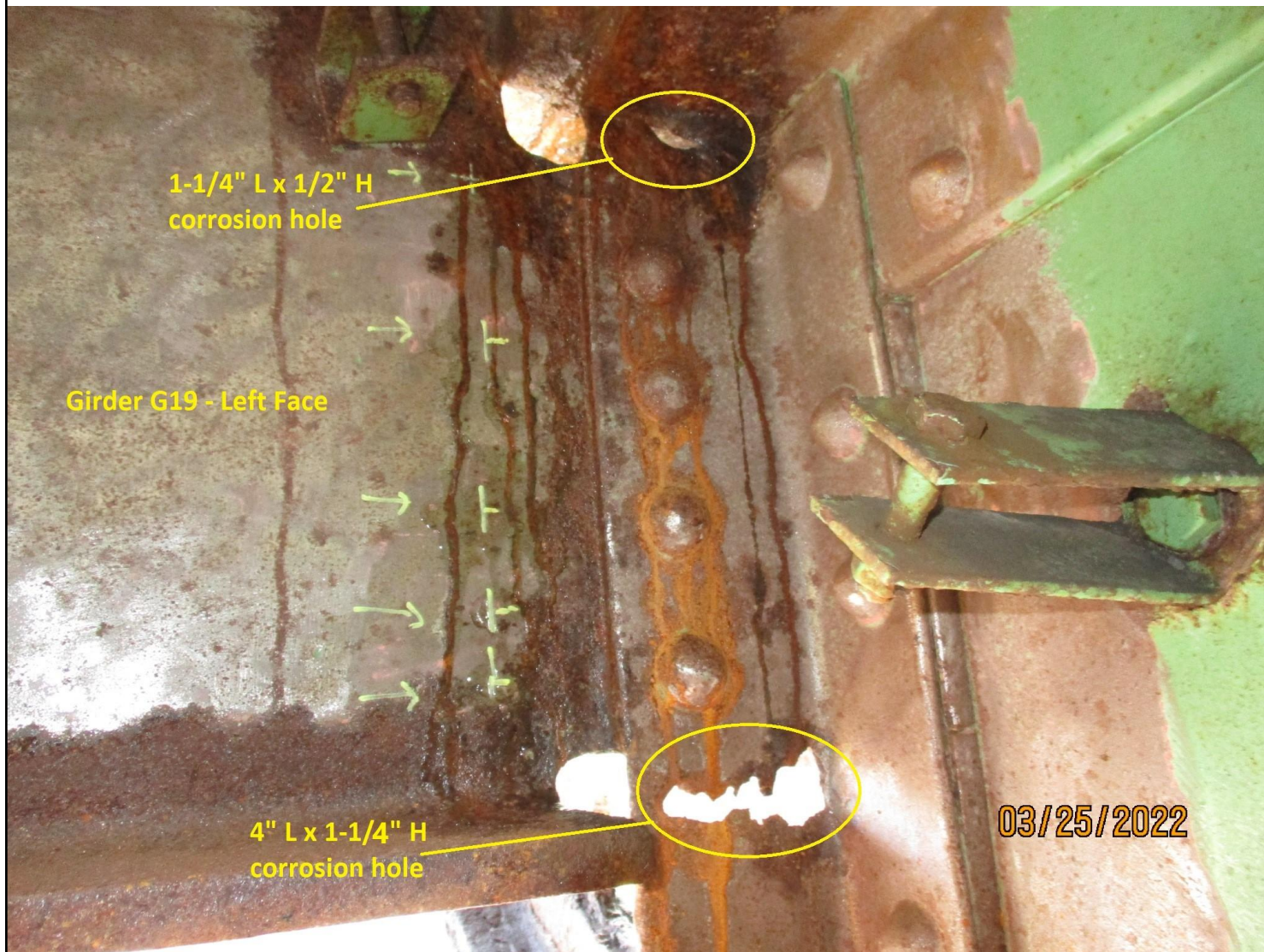


**Attachment Description:** Span 221 at Pier 220. Girder G19 right face. Close-up view of flagged location. Heavy section loss to the web of the Girder and 100% section loss of the connection angle fillet. Looking left.



Photo Number: 4

Photo Filename: Photo 4\_SB\_4479\_corrosion holes-edit.jpg



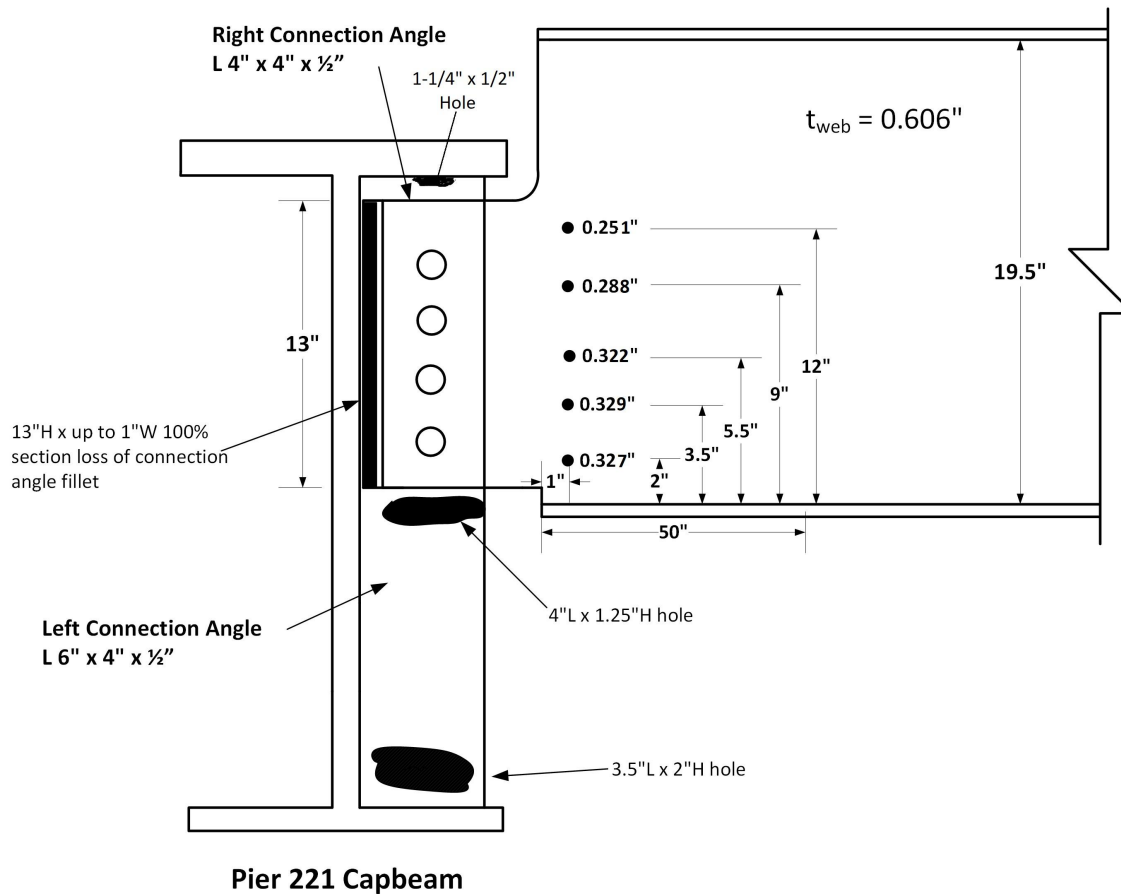
**Attachment Description:** Span 221 at Pier 220. Girder G19 left face. Corrosion hole in the left connection angle. Looking right.

Photo Number: 5

Photo Filename: Span 222 G19 at Pier 221 Sketch.jpg

BIN: 1065318

Date: 03/25/2022

**Yellow Flag NB2222W003**Average remaining web section –  $(0.327 + 0.329 + 0.322 + 0.288 + 0.251)/5 = 0.303"$ Web section loss –  $(1 - (0.303/0.606)) \times 100\% = 50\%$ **Span 222, Girder G19 Right Face at Pier 221**  
**(Looking left)**

N.T.S.

**Attachment Description: Span 222 G19 at Pier 221 Sketch**

Photo Number: 6

Photo Filename: Span 222 G19 at Pier 221 Framing Plan.jpg



**Attachment Description: Span 222 G19 at Pier 221 Framing Plan**